

To: File

Oct. 19/82.

From: P.W.A. Severin

020743

WINDY - CRAGGY 1982 DRILLING

DDH - 12-82 - the most N.Westerly hole drilled 400 metres NW of #11.

-drilled SW at 45°

%Cu %Co %Zn Ag Au

0.0 - 45.0 ft.	Black argillite + siltstone.					
45.0 - 82.0	Ft zone. - alt'd volc.					
82.0 - 124.0	Ft zone - clay formation					
124.0 - 180.0	Massive pyrite - v.fg friable					
		(0.48-1.87)	(0.04-0.11)	(0.04-0.12)	(.09-.62)	(.002-.010)
180 - 231	Massive pyrite -evidence of weathering gone by 210ft.	(0.49-6.68)	(0.07-0.22)	(0.01-0.85)	(.05-1.65)	(.005-.06)
		Cu	Co	Zn	Ag	Au
231 - 301	Massive po. with cp str + diss. blebs.	(0.48-5.04)	(.09-.15)	(.01-.14)	(.05-.15)	(.002-.010)
301 - 466	Massive - SMS pyrite -minor sections of mass. po.	(0.77-3.46)	(.06-.14)	(.02-1.76)	(.05-.15)	(.002-.020)
466 - 481	Massive banded Po-Py and str. cp. Sph common.	(1.24-1.72)	(.06-.08)	(.80-1.07)	(.19-.33)	(.01-.015)
481 - 557	Massive pyrite with some po. "Zinc Zone"	(.03-1.65)	(.006-.058)	(.12-3.0)	(.05-.88)	(.002-.020)
557 - 558.5	Schistose Tuff	.24	.012	.96	.05	.002
558.5 - 577.0	SMS in sideritic matrix. "Zinc Zone"	(.61-1.28)	.022	(1.29-1.31)	(.29-.57)	.025
577.0 - 579.0	Stringers in chlc volcanics (tuff).					
579.0 - 615.0	Str to SMS. "Zinc Zone"	(.52-1.92)	(.026-.035)	(1.22-1.61)	(.15-.68)	(.005-.030)
615 - 868	Volcanic flows + tuffs <10% diss + str. sulphides.					
868 - 987	Str. sulphides in volc.	(.15-1.34)	(.005-.098)	(.01-.06)	(.05)	(.002-.010)

987 - 1280	Str. to SMS - Po. in chlc	
	volcanics + cherty tuffs	(.12 - 2.58)(.014-.11)(.01-.02)(.05)(.002-.015).
	Section 1196-1236' (40')	(1.82-2.53)(.046-.086)(.01)(.05)(.002-.015).
1280 - 1362	Argillite	(.10-3.40)(.005-.014)(.01-.02)(.05)(.002-.010).

End of hole.

	<u>From</u>	<u>To</u>	<u>Ft.</u>	<u>% Cu</u>	<u>% Co</u>	<u>% Zn.</u>	
Cu Zone	178' - 351'		173'	3.09	0.122	0.09	i.e. using a 2% Cu cut-off.
	351.0 - 477'			(.77-2.47)	(.058-.14)	(.02-1.76)	M.S.
Zn Zone	477' - 614'		137'	1.12	0.033	1.68	
	614 - 868	Tuff					
	868 - 1196	strs.					
Cu Zone	1196' - 1236'		40'	2.20	0.064	0.01	
	1236 - 1280	strs					

Note

- 1) - weathering down to 210 feet. - sporadic Cu + Zn values up to 3% Cu, .11% Co, 1.48% Zn. in Mass. Py. Erratic nature likely due to weathering. Some chalcantite ($CuSO_4 \cdot 5H_2O$) on fractures (turquoise to blue) is from 178-210 some supergene enrichment. i.e. 6.68% Cu. (178-188')
- 2) Co assoc. with massive py-cp zone and massive po-cp zone.
- 3) metal zoning suggests that the MS are facies SW, however abundance of stringers occur in therefore occur in H.W.
- 4) #11 extensive Cu values 1086' - 1604' generally 1-3% Cu
 some supergene 20' of 12.9% Cu @ 1374-1394'
 No evidence of "Zn zone".
- 5) #9 Cu values generally <1% except 2.20% Cu/30' 1590-1620'

Windy - Craggy

